

JAPANESE PATENT NO. 31491

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Patent Right Holder (Inventor):	John Taylor Manchester, Lancaster County, England

FILTRATION DEVICE

A filtration device is provided comprising a container (a) divided into a filtration chamber (e) that contains filtration material such as sand, quartz, etc., and a filtered liquid chamber (f) by an apertured plate (d) therein; a central pipe (i) which is open at both ends within the container; an axis (o) provided within the central pipe (i), the axis (o) having a drive pulley (s) on an outer end thereof and a propeller (t) on a lower end thereof so that the propeller (t) is within the central pipe (i); a plurality of jet spouts (u) provided at the upper end of the central pipe (i); and a tubular container (j) in communication with the central pipe (i). During a filtration operation, fluid to be filtered is supplied to the filtration chamber (e), passes through the filtration material, passes through the apertured plate (d) and enters the filtered liquid chamber (f). During a cleansing operation, cleansing

fluid is supplied to the filtered liquid chamber (f), enters the filtration chamber (e) through the apertured plate (d) and agitates the filtration material while at the same time cleansing fluid is sent to the jet spouts (u) through the tubular container (j), where it is expelled at high speed due to centrifugal force. At the same time, the filtration material is suctioned into the central pipe (i) by the propeller (t), the filtration material coming into contact with the cleansing fluid at the upper end of the central pipe (i), where it is cleansed sufficiently.

機ヲ變動スルコトナシテ全作業ヲ行得ル様ニ排列サレタル管及其制御ノ組合セ
六 請求範圍第一項ニ述ヘタル如キ裝置ト詳述シ且ツ添付ノ圖ニ詳記シタル如ク使用者カノ位

供給側放出口ノ壓力ノ差或ハ落差ヲ増スル様ニサレタル裝置

五 請求範圍第一項及第二項ニ述ヘタル如キ型ノ裝置ニ於テ水車ノ供給側或ハ放出口側ニ唧筒ヲ排置シテ水車ノ

形

進機及噴出口ノ軸ノ上ノ至齒輪カ電動機軸上ノ至齒輪ト齧合フ様ニサレタル推進機及噴出口驅動裝置ノ變

四 請求範圍第一項ニ請求サレタル如キ型ノ裝置ニ於テ本文ニ詳説シ且ツ添付ノ圖ニ詳記シタル如ク推

カ固着サレタル推進機及噴出口驅動裝置ノ變形

推進機及噴出口ノ軸ニ至齒輪カ裝置サレ此齒輪ノ他ノ至齒輪ト齧合セ又此齒輪ト同軸ニ傳動滑車

三 請求範圍第一項ニ於テ請求サレタル如キ型ノ裝置ニ於テ本文ニ詳説シ且ツ添付ノ圖ニ詳記シタル如

サレタル推進機及噴出口驅動裝置ノ變形

推進機及噴出口ノ軸ニ之ヲ驅動スル爲メ水車カ裝置サレ而シテ洗浄水ノ一部ニヨリテ驅動サル様ニ

二 請求範圍第一項ニ於テ請求サレタル如キ型ノ裝置ニ於テ本文ニ詳説シ且ツ添付ノ圖ニ詳記シタル如

スル爲メ裝置

カテ濾過物質カ洗浄水ニ相遇シ充分ニ洗浄サルハ、如クササレタル洗浄裝置ヨリナル水或ハ他ノ液ヲ濾過

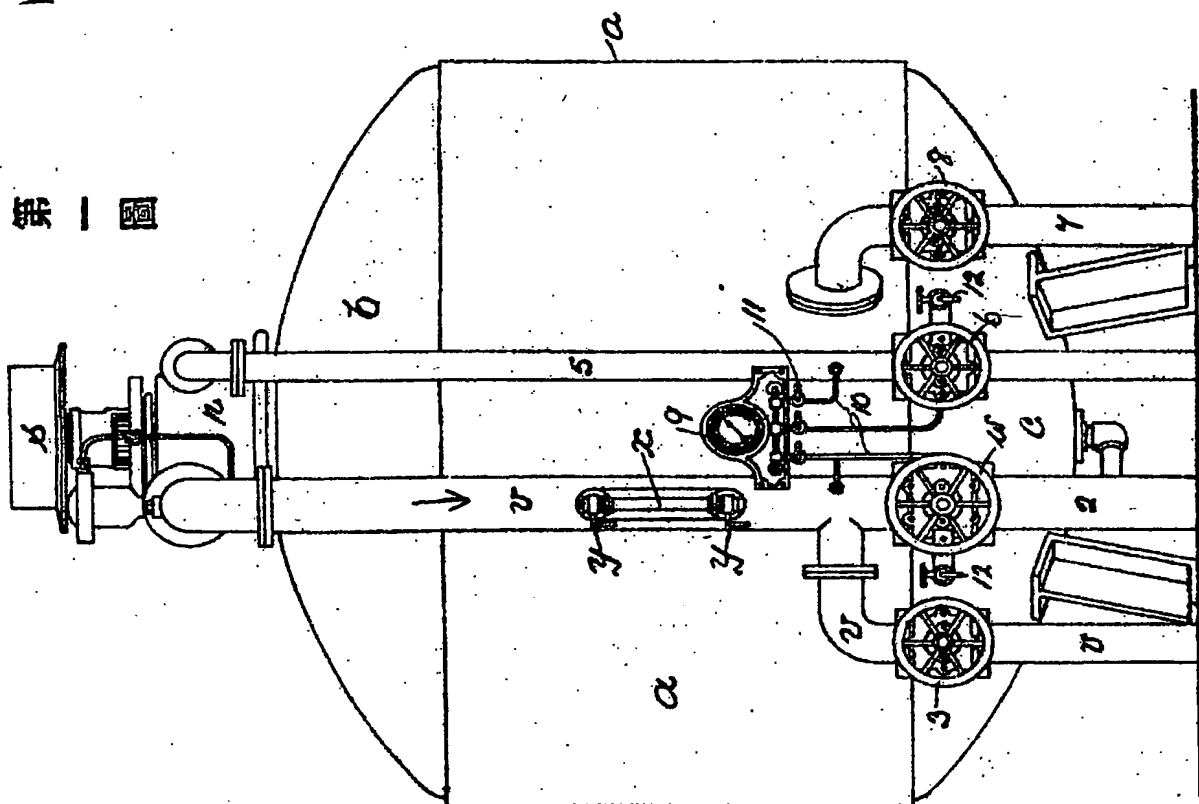
放サレ同時ニ濾過物質カ又濾過物質カ洗淨水ト共ニ推進機ニヨリ中央管中ニ吸入シテ其端ヨリ放出サレ

濾過室内ニ進入シ濾過物質ヲ攪亂シ同時ニ又洗浄水カ僅ヨリ噴子ニ送ラ夫レヨリ遠心力ニテ高速度ニテ

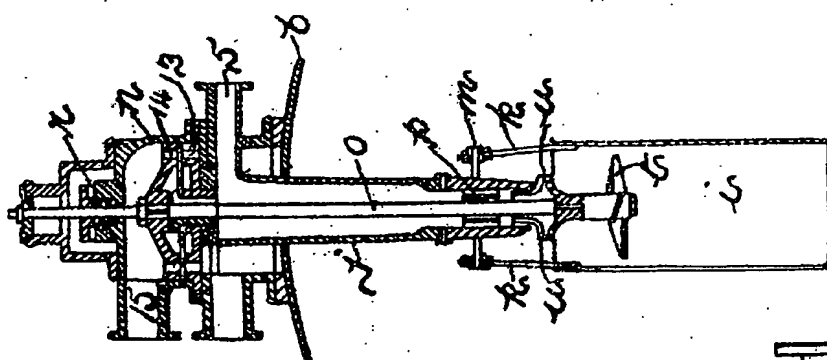
ラ數多ノ噴水嘴ヲ設テ設備サレ中央管中ニ濾過物質カ運給サレカク水濾過裝置ヲ給サレ孔板通過シテ於

サレ軸カ外端ニ濾過室ニ於テ傳動滑車ヲ有シ其ノ下端ニ中央管中ニ濾過裝置及兩端開放サルハ、管中ニ軸カ排置

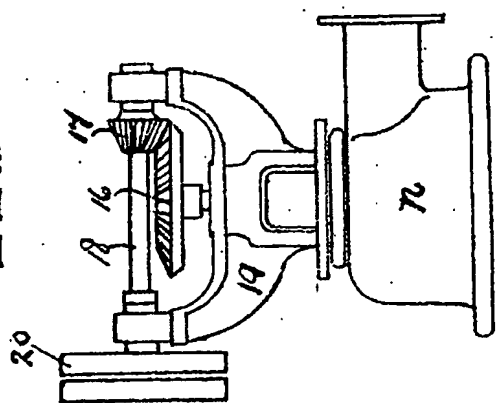
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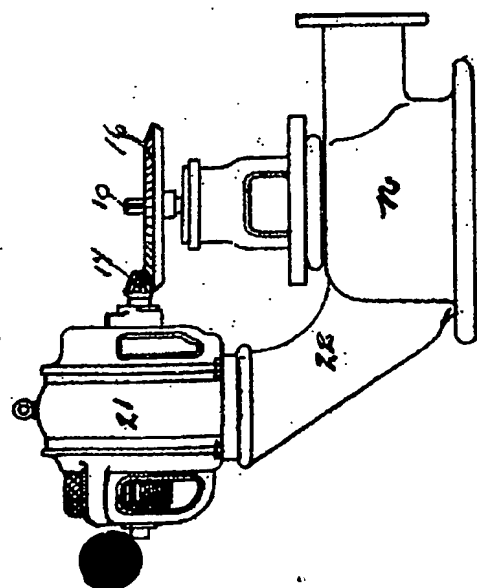
圖一



張
川
國

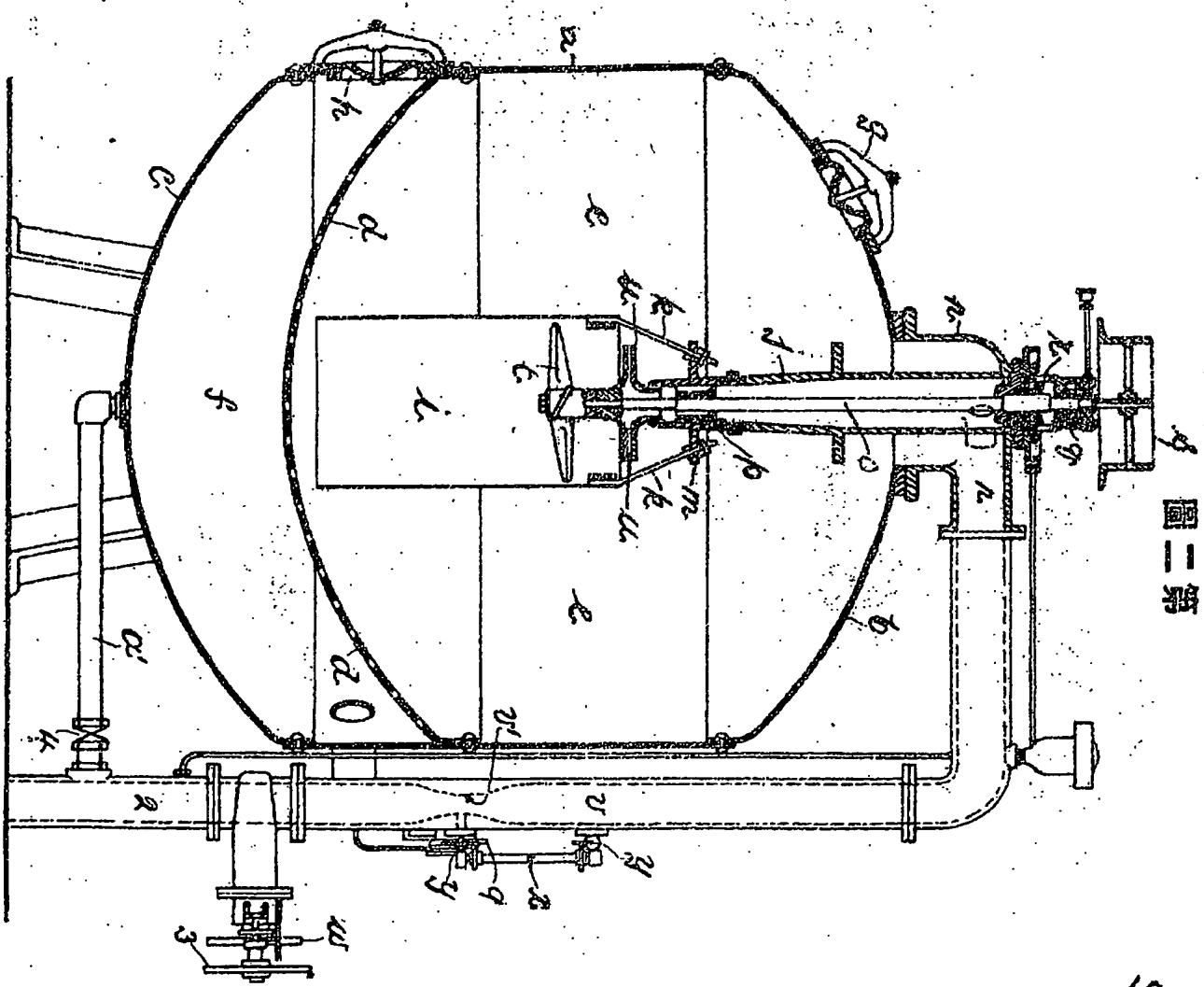


第四圖

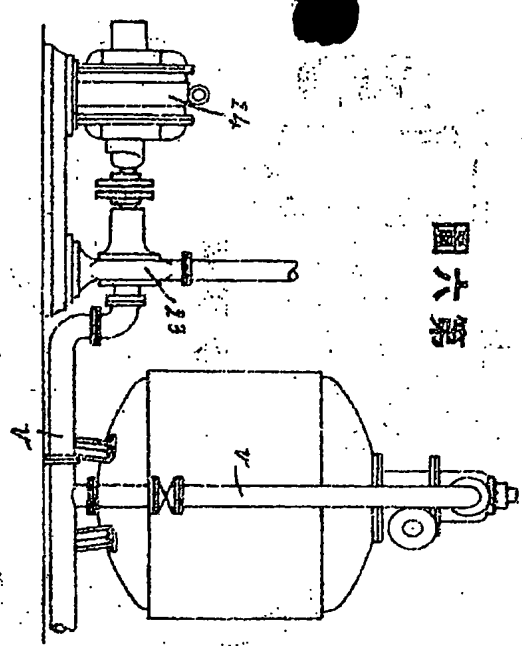


第五圖

圖一第



圖六第



圖七第

